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OIL & GAS DIVISION
DEPT. OF MINES

IV-35
(Rev 8-81)



State of West Virginia
Department of Mines
Oil and Gas Division

Date March 14, 1984
Operator's Well No. J-794
Faun Wm. Paul McCutchan
API No. 47 - 017 - 3253

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas x / Liquid Injection / Waste Disposal /
(If "Gas," Production x / Underground Storage / Deep / Shallow x /)

LOCATION: Elevation: 1184 Watershed Arnold Creek & Middle
District: Central County Doddridge Quadrangle West Union

COMPANY J&J Enterprises, Inc.
ADDRESS P.O. Box 48, Buckhannon, WV 26201
DESIGNATED AGENT Richard Reddecliff
ADDRESS P.O. Box 48, Buckhannon, WV 26201
SURFACE OWNER Wm. Paul McCutchan
ADDRESS 300 Wood St., West Union, WV 26456
MINERAL RIGHTS OWNER Same

ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Stephen

Casey ADDRESS Rt. 2, Box 232-D, Jane Lew,
WV 26378

PERMIT ISSUED 9/20/83
DRILLING COMMENCED 2/6/84
DRILLING COMPLETED 2/11/84

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing & Tubing	Used in Drilling in Well	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	30	0	0 sks.
9 5/8			
8 5/8	1387.75	1387.75	340 sks.
7			
5 1/2			
4 1/2	5485.48	5485.48	230 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5364-74 feet

Depth of completed well 5576 feet Rotary x / Cable Tools
Water strata depths: Fresh 715 feet; Salt 0 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5364-74 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Combined Final open flow 823 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours
Static rock pressure 1550 psig (surface measurement) after 96 hours shut in

(If applicable due to multiple completion--)

Second producing formation Benson & Riley Pay zone depth 5057-59 / 4620-65 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests MAR 26 1984 hours
Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Alexander: Perforations: 5364-74(14 holes) Fracturing: 30,000 lbs. 20/40 sand: 500 gal. Acid: 305 Bbls. Fluid.

Benson: Perforations: 5057-59(8holes) Fracturing: 40,000 lbs. 20/40 sand: 500 gal. Acid: 385 Bbls. Fluid.

Riley: Perforations: 4620-21(2 holes) 4637-39(4 holes) 4656-58(3 holes) 4664-65 (2 holes)
Fracturing: 19,000 lbs. 20/40 sand: 500 gal. Acid: 250 Bbls. Fluid.

BOTTOM HOLE PRESSURE PF=Pwe RGLS 1 1
t=60+(0.0075 x 5485) +459.7=561 X=53.35 x 561 =29929 =0.000033 PF=1550 x 2.72 (0.000033)

(0.670) (4997) (0.9) =1550 x 2.72 0.099 =1550 x 1.1 =

PF=1712 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Clay			0	5	
Red rock, shale & sand			5	80	Gas ck @ 2262 32/10-1 1/2" w/water
Red rock, shale & sand			80	235	95,832 cu.ft.
Red rock, sand & shale			235	620	Gas ck @ 2510 104/10-1" w/water
White sand			620	725	106,000 cu.ft.
Red rock & shale			725	770	
Shale & sand			770	1075	
Shale & sandy shale			1075	1215	Gas ck @ 2664 110/10-1" w/water
White sand			1215	1235	110.56 cu.ft.
Shale & white sand			1235	1280	
Shale & sand			1280	1350	
Shale			1350	1970	Gas ck @ 4709 90/10-1" w/water
Little lime			1970	2000	71,444 cu.ft.
Shale			2000	2010	
Big Lime			2010	2110	
Shale & sand			2110	2205	Gas ck @ 5142 110/10-1" w/water
Sand & shale			2205	3445	110.56 cu.ft.
Sand & shale			3445	4620	
Riley			4620	4665	
Shale			4665	5057	Gas ck @ 5514 105/10-1" w/water
Benson			5057	5059	107,000 cu.ft.
Shale & sand			5059	5364	
Alexander			5364	5374	
Sand & shale			5374	5576	

T.D.

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By: Bob Dahlin

Date: 3/14/84

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including strata, encountered in the drilling of a well."



1) Date: July 18, 19 83
 2) Operator's Well No. J-794
 3) API Well No. 47 - 017 - 3253
 State County Permit

DRILLING CONTRACTOR:
S.W. Jack Drilling Company
 Box 48
Buckhannon, WV 26201

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
OIL AND GAS WELL PERMIT APPLICATION

4) WELL TYPE: A Oil Gas
 B (If "Gas", Production / Underground storage Deep Shallow
 5) LOCATION: Elevation: 1184 Watershed: Arnold Creek & Middle Island Creek
 District: Central West Union County: Doddridge Quadrangle: West Union
 6) WELL OPERATOR J&J Enterprises, Inc. 11) DESIGNATED AGENT Richard Reddecliff
 Address P.O. Box 48 Address P.O. Box 48
Buckhannon, WV 26201
 7) OIL & GAS ROYALTY OWNER Wm. Paul McCutchan
 Address 300 Wood St.
West Union, WV 26456
 8) SURFACE OWNER Wm. Paul McCutchan
 Address 300 Wood St.
West Union, WV 26456
 9) FIELD SALE (IF MADE) TO:
 Address Unknown

10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Stephen Casey
 Address Rt. 2, Box 232-D
Jane Lew, WV 26378
 15) PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____

16) GEOLOGICAL TARGET FORMATION, Alexander
 17) Estimated depth of completed well, 5050 feet
 18) Approximate water strata depths: Fresh, 140, 420 feet; salt, 0 feet.
 19) Approximate coal seam depths: None Is coal being mined in the area? Yes No

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New			Used
Conductor	11 3/4	H-40	42	X	0	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	X	1000	TO SURFACE	By Luke 4505
Coal	8 5/8	ERW	23	X	1000	TO SURFACE	Sizes
Intermediate							Depths set
Production	4 1/2	J-55	10.5	X	5000	200 sks	Perforations:
Tubing							Top
Liners							Bottom

21) EXTRACTION RIGHTS
 Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No
 If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
 23) Required Copies (See reverse side.)

24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.
 Notary: Richard Reddecliff
 My Commission Expires October 16, 1989
 Signed: Richard Reddecliff Its: Designated Agent

OFFICE USE ONLY
 Permit number 47-017-3253 **DRILLING PERMIT** September 20, 1983
 Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof.
 Notification should be given to the Department of Mines, Oil and Gas Division, 1000 Kanawha Blvd. East, Charleston, WV 25305, if the permit holder wishes to modify the permit.

Permit expires September 20, 1985 unless drilling is commenced prior to that date and prosecuted with due diligence.
 Bond: [Signature] Agent: [Signature] Plat: [Signature] Fee 2.00
[Signature] Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

